

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1 – 3. Cancelled.

4. (Currently amended) A method for determining the relative concentrations of two or more components in a sample ~~comprising~~consisting essentially of |  
obtaining a nuclear magnetic resonance spectrum of the sample;  
identifying resonance packets from the spectrum;  
integrating said resonance packets;  
identifying the number of nuclei that contribute to the integral data of said resonance packets; and  
determining the relative concentration of each component in said sample based on the integral data and on the number of nuclei.

5. (Original) The method of claim 4, wherein said resonance packets comprise one resonance.

6. (Original) The method of claim 4, wherein at least one resonance packet comprises more than one resonance.

7. (Original) The method of claim 4, wherein the steps are carried out in the recited order.

8. (Original) The method of claim 4, wherein said nuclei is selected from the group consisting of  $^1\text{H}$ ,  $^{13}\text{C}$ ,  $^{15}\text{N}$ ,  $^{19}\text{F}$ ,  $^{29}\text{Si}$ ,  $^{31}\text{P}$ ,  $^{11}\text{B}$ ,  $^{17}\text{O}$ ,  $^{23}\text{Na}$ ,  $^{27}\text{Al}$  and  $^{29}\text{Si}$ .

9. (Original) The method of claim 8, wherein said nuclei is selected from the group consisting of  $^1\text{H}$  and  $^{13}\text{C}$ .

10. (Original) The method of claim 4, wherein said determination of the concentration of each component in said sample is performed by linear regression analysis.

11. (Original) The method of claim 4, wherein the sample comprises a polymer or mixture of polymers.

12. (Original) The method of claim 11, wherein said polymer or mixture of polymers comprises a soft segment BPA polycarbonate.

13. Cancelled.

14. (Original) The method of claim 4, wherein said sample is in solution.

15. Cancelled.

16. Cancelled.

17. (Original) A method for determining the relative concentrations of two or more components in a sample comprising:

obtaining a nuclear magnetic resonance spectrum of the sample, wherein said sample comprises a polymer or a mixture of polymers;

identifying resonance packets from the spectrum;

integrating said resonance packets;

identifying the number of nuclei that contribute to the integral data of said resonance packets, wherein said nuclei are  $^1\text{H}$  or  $^{13}\text{C}$ ; and

determining the relative concentration of each component in said sample based on the integral data and on the number of nuclei.

18. (Original) The method of claim 17, wherein said sample is in solution.

19. Cancelled.

20. (Original) The method of claim 17, wherein said polymer or mixture of polymers comprises a soft segment BPA polycarbonate.

21. Cancelled.

22. Cancelled.

23. (New) The method of claim 17 wherein said nuclei are  $^{13}\text{C}$ .

24. (New) The method of claim 17, wherein said nuclei are  $^1\text{H}$ .

25. (New) The method of claim 17, wherein said sample comprises a polymer.